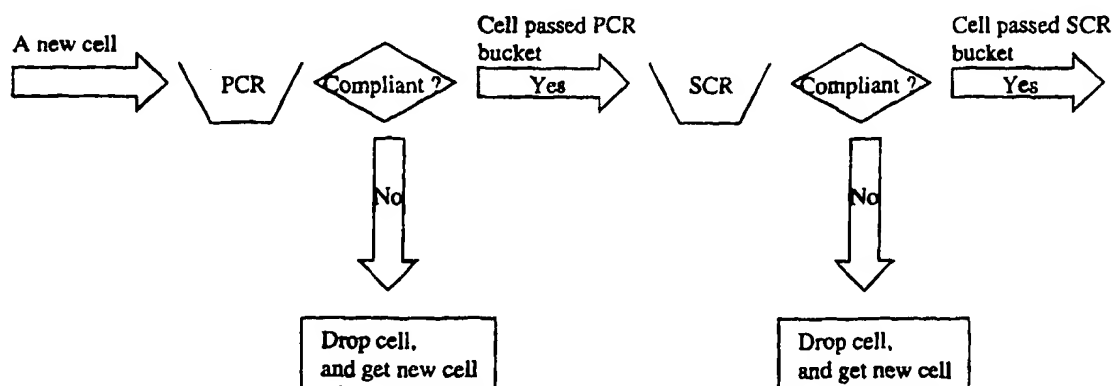




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(54) Title: METHOD FOR CONTROLLING THE TRAFFIC IN AN ATM NETWORK SO AS TO MAINTAIN THE QUALITY OF SERVICE

**(57) Abstract**

The present invention relates to a method for controlling the traffic in an ATM (Asynchronous Transfer Mode) network so as to maintain the Quality of Service (QoS) thereof by implementing Usage Parameter Control (UPC) comprising at least one leaky bucket unit arranged between an original cell flow of ATM-cells and a switch unit, there being used one counter for each bucket per connection, said counters being incremented and decremented according to predetermined criteria by means of timer counter means, and for the objective of providing a method which can be implemented in a far more time consuming and hardware requiring implementation it is according to the invention suggested a method characterized by the combination of the following steps: decrementing the bucket counters at regular intervals but only when there are no arriving cells, and computing real bucket values for a connection when a cell for said connection arrives.

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